In re application of

MAIL STOP: RCE

Mitsuaki OSHIMA et al.

Docket No. 2000\_1422

Serial No. 09/686,466

Group Art Unit 2634

Filed October 12, 2000

Examiner A. Le

COMMUNICATION SYSTEM

Confirmation No. 3379

## INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

THE COMMISSIONER IS AUTHORIZED TO CHARGE ANY DEFICIENCY IN THE FEES FOR THIS PAPER TO DEPOSIT ACCOUNT NO. 23-0975

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Patentees request consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for:

[X]	each U.S. Patent and U.S. Patent application publication;
0	each reference previously cited in the international application PCT/; and/or
0	each reference previously cited in prior parent application Serial No.

1a. [X] This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, or

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

and thus no certification and/or fee is required.

RECEIVED
MAR 3: 0 2005

**GROUP 3600** 

1b.	[] This Information Disclosure Statement is submitted							
	after the events of above paragraph 1a and prior to the mailing date of a final Office  Action or a Notice of Allowance or an action which otherwise closes prosecution-in-the application, and thus:							
	(1) [] the certification of paragraph 2 below is provided, or							
	(2) [] the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.							
1c.	[] This Information Disclosure Statement is submitted:							
	after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:							
	the certification of paragraph 2 below is provided, and							
	the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.							
2.	It is hereby certified							
	a. [] that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or							
-	b. [] that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.							
3. []	Consideration of the following list of additional information (including any copending or							

abandoned U.S. application, prior uses and/or sales, etc.) is requested.

4.		For each non-English language reference listed on the attached form PTO-1449, reference is made to:						
	a. []	a full or partial English language translation submitted herewith,						
	b. []	a foreign patent office search report (in the English language) submitted herewith,						
	c. []	the concise explanation contained in the specification of the present application at page,						
	d. [X]	the concise explanation set forth in the attached English language abstract,						
	e. []	the concise explanation set forth below or on a separate sheet attached to the reference:						
5.	[] A fo	oreign patent office search report citing one or more of the references is enclosed.						
6.	[] Stat	ement Under 37 CFR 1.704(d)						
	Each is cited in	tem of information contained in the Information Disclosure Statement was first any communication from a foreign Patent Office in a counterpart application, and						

Respectfully submitted,

this communication was not received by any individual designated in §1.56(c) more than

thirty days prior to the filing of the Information Disclosure Statement.

Mitsuaki OSHIMA et al.

Registration No. 41,471

Dilipek

Attorney for Patentees

JRF/fs Washington, D.C. 20006-1021 Telephone (202) 721-8200 Facsimile (202) 721-8250 March 23, 2005

Sheet 1 of 2	•	1	P INFORMAT	ION DISCLOSURE STATEMENT					
FORM PTO 1449 (modified)				ATTY DOCKET NO. SERIAL NO. 09/686,466					
		MENT OF COMMERCE TRADEMARK OFFICE		APPLICANT Mitsuaki OSHIMA et al.					
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary ) TRADE				FILING DATE October 12, 2000		GROUP 2634			
Date	Submitted	d to PTO: March 23, 200		S. PATENT DOCUMENTS					
*EXAMINER		DOCUMENT	DATE	NAME			FILING DATE IF APPROPRIATE		
	AA	3,824,548	7-16-74	Sullivan et al.					
	AB	3,959,726	5-25-76	Hinoshita et al.					
	AC	4,303,939	12-1-81	Stephens et al.					
	AD	4,303,941	12-1-81	Marti et al.					
	AE	4,309,726	1-5-82	Tanaka et al.					
	AF	4,535,352	8-85	Haskell					
	AG	4,564,858	1-14-86	Resch		ļ			
	АН	4,581,639	4-8-86	Judge		RE	CEIVED		
	Al	4,769,819	9-6-88	Matsutani et al.		MA	R 3 0 2005		
	AJ	4,794,447	12-27-88	Tsinberg		GRO	DUP 3600		
	AK	4,817,192	3-28-89	Phillips et al.					
	AL	5,029,003	7-91	Jonnalagadda		<b></b>			
	AM	5,134,464	7-28-92	Basile et al.		<u> </u>			
	AN	5,400,084	3-21-95	Scarpa					
	AO	5,214,656	5-25-93	Chung et al.	g et al.				
			FOR	REIGN PATENT DOCUMENTS					
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO		
	AP 3-48587 3-1-91 Japan			<u> </u>	abstract				
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)									
	AQ Masafumi SAITO et al., "Bit Error Rate Characteristics of OFDM in Multipath Environment", 1991								
	AR Ryutaro OHMOTO et al., "π/4-shift QPSK Subcarrier Transmission", 1991								
	DATE CONSIDERED								
EXAMINER									

Sheet 2 of 2													
FORM PTO 1449 ( m	ATTY DOCKE			SERIAL NO. 09/686,466									
PAT	ENT AND	MENT OF COMMERCE TRADEMARK OFFICE CES CITED BY APPLICAN	MAR 2 3 20UD	APPLICANT Mitsuaki O	SHIMA et al.								
LIST OF REFERENCES CITED BY APPLICANT(S)  (Use several sheets if necessary)  Date Submitted to PTO: March 23, 2005				FILING DATE GROUP October 12, 2000 GROUP 2634									
	U.S. PATENT DOCUMENTS												
*EXAMINER*				N	AME	CLASS		CLASS		SUBCLASS		FILING DATE IF APPROPRIATE	
	AA	5,181,112	1-19-93	Citta	a et al. 	<u></u>							
	АВ	5,377,051	12-27-94	Lan	e et al.								
	AC	5,576,902	11-19-96	Lan	e et al.								
	AD	5,218,622	6-8-93	Fazo	el et al.								
	AE	5,561,468	10-1-96	Brya	n et al.			RE	CEIV	ED-			
	AF	5,598,220	1-97	Citta	a et al.				\ <del>R 3 0 20</del>				
	AG	5,802,241	9-1-98	Os	shima ————			GRO	OUP 3	600			
	АН	4,800,426	1-24-89	G	lenn								
AI 5,007,088 4-9-91			00	i et al.									
			FORE	IGN PATENT D	OCUMENTS			T	<u> </u>				
		DOCUMENT NUMBER	DATE	со	UNTRY	C	LASS	SUBCLASS	TRANSL YES	ATION NO			
	AJ				, <u> </u>	<u> </u>							
	AK					<u> </u>		<del></del>					
	AL					<u> </u>			<u> </u>	-			
	АМ					ļ			<u> </u>				
	AN									<u> </u>			
		OTHER	R DOCUMENT(S) (	Including Author		nent Page	s, Etc.)						
	AO												
	AP												
	AQ												
EXAMINER		L			DATE CONSIDE	RED							